

Appl. No. 10/711,999
Amdt. dated July 12, 2006
Reply to Office action of June 16, 2006

Amendments to the Claims:

Claim 1 (currently amended): A method for patterning a light guide plate comprising:

(a) using laser beams to form a roughened surface with micro-mirror structures on a mold; and

5 (b) manufacturing the light guide plate with the mold.

Claim 2 (currently amended): The method of claim 1 wherein step (a) ~~further~~ comprises using Nd-YAG laser beams to form the roughened surface on the mold.

10 Claim 3 (currently amended): The method of claim 1 wherein step (a) ~~further~~ comprises using pulse laser beams to form the roughened surface on the mold.

Claim 4 (currently amended): The method of claim 1 further ~~comprises~~ comprising adjusting a laser machining parameter for controlling roughness of the roughened
15 surface on the mold.

Claim 5 (canceled)

Claim 6 (currently amended): The method of claim 1 wherein step (b) ~~further~~ comprises
20 manufacturing the light guide plate with the mold by injection molding.

Claim 7 (currently amended): The method of claim 1 wherein step (b) ~~further~~ comprises manufacturing the light guide plate with the mold ~~in a by thermoforming method~~.

25 Claim 8 (currently amended): The method of claim 1 wherein step (b) ~~further~~ comprises forming a rollover mold by rolling over the mold in an electroforming method and manufacturing the light guide plate with the rollover mold.

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Claim 9 (currently amended): ~~An edge-light backlight module comprising:~~
~~a light source; and~~
~~a light guide plate installed on a lateral side of the light source, the~~ A light guide plate
comprising:
5 a light-guiding surface; and
a bottom surface positioned below the light-guiding surface, the bottom surface
being a roughened surface formed of micro-mirror structures.

Claim 10 (currently amended): ~~The edge-light backlight module~~ light guide plate of claim
10 9 wherein the light-guiding surface is formed of linear prism structures.

Claim 11 (currently amended): ~~An edge-light backlight module comprising:~~
~~a light source; and~~
~~a light guide plate installed on a lateral side of the light source, the~~ A light guide plate
15 comprising:
a light-guiding surface being a roughened surface formed of micro-mirror
structures; and
a bottom surface positioned below the light-guiding surface.

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